

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2002097545
PUBLICATION DATE : 02-04-02

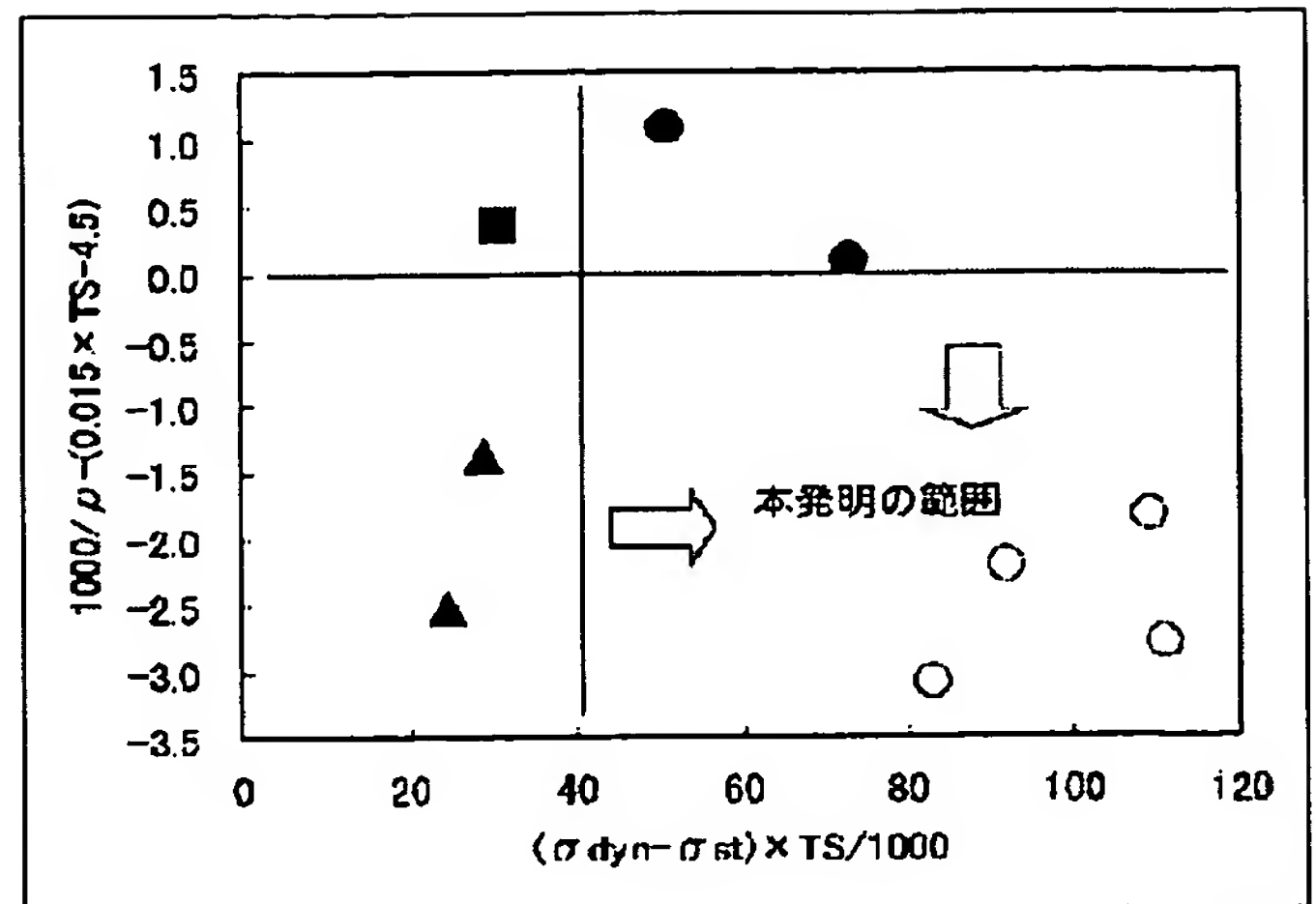
APPLICATION DATE : 21-09-00
APPLICATION NUMBER : 2000286447

APPLICANT : NIPPON STEEL CORP;

INVENTOR : YOSHIDA TORU;

INT.CL. : C22C 38/00 B21B 1/26 B21B 3/00
B21B 45/02 B21C 47/02 C21D 9/46
C22C 38/58

TITLE : HIGH STRENGTH STEEL SHEET WITH
HIGH WORKABILITY SUPERIOR IN
SHAPE RETAINING PROPERTY ON
WORKING AND IMPACT- ENERGY
ABSORPTION ABILITY, AND
MANUFACTURING METHOD
THEREFOR



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a high strength steel sheet having a satisfactory shape retaining property and an impact-energy absorption ability by controlling the texture, r value, the composition and microstructure of the steel sheet, and to provide a manufacturing method therefor.

SOLUTION: The high strength steel sheet with high workability superior in shape retaining property on working and impact-energy absorption ability comprises a controlled composition, a composite structure including retained austenite of 3% or more by a volume fraction, 3.0 or more of mean value of random X-ray intensity ratio for orientation groups of $\{100\}<011>- \{223\}<110>$ in the sheet face within thickness of at least 1/2 sheet, and 3.5 or less of mean value of random X-ray intensity ratio for three crystal orientations of $\{554\}<225>$, $\{111\}<112>$, and $\{111\}<110>$. It further comprises that at least one of r value in a longitudinal direction and r value of the long-transverse direction is 0.7 or less.

COPYRIGHT: (C)2002,JPO